

Division of Solid and Hazardous Waste  
P.O. Box 414 401 East State Street  
Trenton, NJ 08625-0414  
Telephone: (609) 984-6880 Telecopier: (609) 984-6874  
<http://www.state.nj.us/dep/dshw>

## **SOLID WASTE FACILITY PERMIT**

Under the provisions of N.J.S.A. 13:1E-1 *et seq.* known as the Solid Waste Management Act, this permit is hereby issued to:

### **MERCK & CO., INC.**

Facility Type:	Small-scale Thermal Destruction Facility
Lot No.:	67
Block No.:	470
Municipality:	Linden
County:	Union
Facility Registration No.:	2013001051

This permit is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection.

This permit shall not prejudice any claim the State may have to riparian land, nor does it allow the permittee to fill or alter or allow to be filled or altered in any way, lands that are deemed to be riparian, wetlands, stream encroachment areas or flood plains, or that are within the Coastal Area Facility Review Act (CAFRA) zone or are subject to the Pinelands Protection Act of 1979, nor shall it allow the discharge of pollutants to waters of this State without prior acquisition of the necessary grants, permits, or approvals from the Department of Environmental Protection.

April 17, 2002  
Issuance Date

March 30, 2005  
Expiration Date

\_\_\_\_\_  
Thomas Sherman, Assistant Director  
Office of Permitting & Technical Programs

## Table of Contents

<u>Item</u>	<u>Page(s)</u>
Scope of Permit .....	3
Regulated Activities at the Facility .....	3
Facility Description .....	3
Section I - General Conditions Applicable to All Permits .....	6
1. Duty to Comply .....	6
2. Duty to Reapply .....	6
3. Need to Mitigate .....	7
4. Permit Actions .....	7
5. Signatory Requirements .....	8
6. Transfers .....	8
7. Registration Statement .....	9
8. Operating Record and Reporting Requirements .....	9
9. Conformance to the District Solid Waste Management Plan .....	9
10. Compliance with Other State Regulations and Statutes .....	10
Section II - General Operating Requirements .....	11
1. General Operating Requirements for Solid Waste Facilities Disposing of On-site Generated Waste .....	11
2. General Operating Requirements for Small-scale Thermal Destruction Facilities .....	13
3. General Operating Requirements for Regulated Medical Waste Destination Facilities .....	18
Section III - Specific Conditions Applicable to the Facility .....	19
1. Permitted Waste Types .....	19
2. Approved Designs, Plans and Reports .....	19
3. Approved Operations .....	23
4. Security .....	24
5. Residue Management .....	24
6. Operations Records .....	28

## Scope of Permit

This Permit, along with the referenced application documents herein specified, shall constitute the sole Solid Waste Facility Permit for the operation of a small-scale thermal destruction facility by Merck & Co., Inc. located in the City of Linden, Union County, New Jersey. The Solid Waste Facility Permit is a permit renewal to the original Solid Waste Facility Permit issued to Merck & Co., Inc. on March 31, 1993. Any registration, approval or permit previously issued for this facility to Merck & Co., Inc. by the Division of Solid and Hazardous Waste or its predecessor agencies, is hereby superseded.

This Permit does not convey any property rights of any sort, or any exclusive privilege. Failure to comply with all the conditions specified herein may result in revocation of this Permit and/or may result in such other regulatory or legal actions which the Department is authorized by law to institute.

## Regulated Activities at the Facility

Section I of this Permit contains the general conditions applicable to all solid waste facilities. Section II of this Permit contains general operating requirements for all small-scale thermal destruction facilities that receive, store, process or transfer solid waste and regulated medical waste materials. Section III of this Permit contains specific conditions applicable to the operations of this facility.

## Facility Description

The permitted facility is a privately owned thermal destruction unit (incinerator) operated by Merck & Co., Inc. The facility is operated for the sole purpose of disposing of select waste materials generated by Merck & Co., Inc. at what is known as the "Rahway Campus". The Rahway Campus encompasses land located in both the City of Rahway and the City of Linden, Union County. The street address of the Rahway Campus is 126 E. Lincoln Avenue, Rahway, New Jersey. The incinerator facility is located on Block 470, Lot 67, in the City of Linden in the northeast quadrant of the Rahway Campus. It is surrounded by industrial facilities on the Merck Rahway Campus. Approximately 650 feet to the southeast of the facility is a small residential area. Other residential areas to the northwest, west, south, and southeast are more distant and are separated from the facility site by existing industrial facilities, U.S. Route 1&9 and railroad tracks. The Rahway Campus is generally bordered by U.S. Route 1&9 to the east, the Penn Central railroad tracks which abut the Rahway Campus to the west, industrial property to the north, and East Scott Avenue to the south.

The thermal destruction facility is authorized to accept and process the following waste types originating from the Merck & Co., Inc. Rahway Campus: type 27 dry industrial waste; type 72 bulk liquid and semiliquids; and, Regulated Medical Waste (RMW) Classes 1, 2, 3, 4, 5, 6, and 7 that include liquids and semi-liquids used in research and development activities conducted at the Rahway Campus, that have been in contact with regulated waste materials. Incineration of RMW that is also low-level radioactive waste-containing byproduct material shall be conducted in accordance with the permittee's U.S. Nuclear Regulatory Commission (NRC) Materials

License No. 29-00117-06, 10 CFR Part 20 and 40 CFR Part 61, Subpart I, as applicable. The facility is authorized to operate twenty-four hours daily, seven days per week. The facility has a permitted capacity of 799 pounds per hour of any combination of solid waste types authorized for processing, and a permitted capacity of 751 pounds per hour for injected liquid waste.

The incineration system consists of a rotary kiln incinerator, secondary combustion chamber, a dry acid gas scrubber, and a baghouse. Waste is introduced to the rotary kiln, which operates with sufficient temperature and excess air to provide for proper volatilization and combustion of the waste. Combustion gases leaving the rotary kiln enter the auxiliary fuel-fired secondary combustion chamber. The secondary combustion chamber is refractory-lined and provides a high-temperature, turbulent, oxidizing environment with sufficient residence time to complete the destruction of partially combusted organics. Auxiliary natural gas burners are used in both the rotary kiln and the secondary combustion chamber for preheating and for maintaining the design operating temperatures.

Combustion gases from the secondary combustion chamber enter a partial quench unit where the gases are cooled prior to entering the dry reactor chamber where lime is injected to neutralize acid gases. From the dry reactor, the gases enter the fabric filter baghouse where particulates are removed. The gases then exit through a stack at a height of 125 feet above ground level. A thermal relief valve is also part of the facility design. The thermal relief valve is located on top of the secondary combustion chamber, and it is designed to protect the downstream air pollution control system from excessive combustion gas temperatures.

All waste brought to the thermal destruction facility originates within the Merck & Co., Inc. Rahway Campus, and is received at a covered loading dock. Waste materials are packaged in cardboard boxes or fiber drums to ensure clean, sanitary, and safe handling. The boxes and drums are labeled as to contents by means of a bar code or other means of identification. This identifier is used to track the waste material from receipt through incineration. The waste is immediately inventoried for transfer to dedicated enclosed storage areas consisting of warehouse storage and refrigerated storage.

A conveyor feed system is utilized to bring the individual cardboard boxes and fiber drums to the rotary kiln ram feed loader. Each box/container is automatically weighed on the conveyor to ensure that the feed rate is kept within the permitted limit. The ram feeder can be operated manually or on an automatic cycle. The boxes/containers move into the ram feed hopper. The ram feeder then cycles and pushes the material into the rotary kiln.

Liquid waste that is received at the facility in plastic jugs packed in boxes or fiber drums, is fed to the rotary kiln via the ram feeder system. Bulk liquids received in larger containers are pumped into the rotary kiln via the aqueous injection nozzle. The aqueous injection system is managed at the main control console. An interlock system prevents the feeding of solid and liquid wastes simultaneously. A mass flow meter is provided to measure and control the flow rate of the liquid waste into the rotary kiln.

Bottom ash is discharged from the rotary kiln into a water-filled quench tank. An automated mechanical scoop removes the ash from the quench tank to a residue container. Fly ash is collected from the baghouse and discharged into a small container via a plastic sleeve to minimize dusting. The fly ash and bottom ash containers are brought to the ash dumpster pit at

the loading dock. There the containers are emptied into a larger roll-off container located below a hatch in the floor. When the roll-off container is full, it is brought to the designated exterior ash storage area. Samples of bottom ash and fly ash are collected from the containers in which each residue is initially deposited. The combined bottom ash/fly ash samples are analyzed for the purpose of assessing the chemical characteristics.

## Section I - General Conditions Applicable to All Permits

### 1. Duty to Comply

- (a) Pursuant to N.J.A.C. 7:26-2.8(i), the permittee shall operate the facility in compliance with the requirements of N.J.A.C. 7:26-2.11.
- (b) Pursuant to N.J.A.C. 7:26-2.8(j), the permittee shall operate the facility in conformance with all of the conditions, restrictions, requirements and any other provisions set forth in this permit.
- (c) Pursuant to N.J.A.C. 7:26-2.8(k), except for minor modifications as set forth at N.J.A.C. 7:26-2.6(d), the permittee shall not modify, revise or otherwise change any condition of this permit without prior written approval of the Department.

### 2. Duty to Reapply

- (a) Pursuant to N.J.A.C. 7:26-2.7(b)1, if the permittee wishes to continue the operation of this facility after the expiration date of this permit, the permittee shall apply for permit renewal at least 90 days prior to the expiration date of this permit, and the facility must be included in the District Solid Waste Management Plan at the time of such application.
- (b) Pursuant to N.J.A.C. 7:26-2.7(c), the conditions of this permit shall continue in force beyond the expiration date of this permit pursuant to the Administrative Procedure Act, N.J.S.A. 52:14B-11, until the effective date of a new permit if:
  - (1) The permittee has submitted a timely and complete application for a renewal permit pursuant to (a) above; and
  - (2) The Department, through no fault of the permittee, does not issue a new permit with an effective date on or before the expiration date of this permit, due to time or resource constraints.
- (c) Pursuant to N.J.A.C. 7:26-2.7(d), permits continued under said section remain fully effective and enforceable, and if the permittee is not in compliance with any one of the conditions of the expiring or expired permit the Department may choose to do any or all of the following:
  - (1) Initiate enforcement action based on the permit which has been continued;
  - (2) Issue a notice of intent to deny the new permit under N.J.A.C. 7:26-2.4. If the permit is denied, the permittee would then be required to cease activities and operations authorized by the continued permit or be subject to an enforcement action for operating without a permit;
  - (3) Issue a new permit under N.J.A.C. 7:26-2.4 with appropriate conditions; or

- (4) Take such other actions as are authorized by N.J.A.C. 7:26-1 *et seq.* or the Solid Waste Management Act, N.J.S.A. 13:1E-1 *et seq.*

3. Need to Mitigate

- (a) Pursuant to N.J.A.C. 7:26-2.8(p), should the Department determine that the facility is operating in an environmentally unsound manner, the permittee shall:
  - (1) Within 90 days of notification by the Department, submit a plan to close or environmentally upgrade the facility in conformance with the applicable standards, as determined by the Department and set forth in N.J.A.C. 7:26-1 *et seq.*;
  - (2) Within 90 days of receipt of written approval by the Department of the submitted plan, begin to close or construct the environmental upgrading at the facility; and
  - (3) Within one year of receipt of written approval by the Department of the submitted plan, complete closure or construction of the environmental upgrading at the facility.
- (b) Pursuant to N.J.A.C. 7:26-2.8(q), a one time extension of the compliance schedule established by N.J.A.C. 7:26-2.8(p) shall be granted by the Department provided the permittee demonstrates that it has made a good faith effort to meet the schedule.
- (c) Pursuant to N.J.A.C. 7:26-2.8(r), should the environmental upgrading required pursuant to N.J.A.C. 7:26-2.8(p) not be completed or should continued operations be determined by the Department to be environmentally unsound despite the implementation of the plan approved pursuant to N.J.A.C. 7:26-2.8(p), the facility shall temporarily or permanently cease operations and close or enter into receivership, as provided for in N.J.S.A. 13:1E-9, for that period of time necessary to rectify the environmentally unsound conditions.

4. Permit Actions

- (a) Pursuant to N.J.A.C. 7:26-2.6(a)1, if cause exists, the Department may modify, or revoke and reissue this permit, subject to the limitations of that section, and may require the permittee to submit an updated or new application in accordance with N.J.A.C. 7:26-2.6(e), if appropriate.
- (b) Pursuant to N.J.A.C. 7:26-2.6(b), the Department may modify or, alternatively, revoke and reissue this permit if cause exists for termination under N.J.A.C. 7:26-2.6(c) and the Department determines that modification or revocation and reissuance is appropriate.
- (c) Pursuant to N.J.A.C. 7:26-2.6(d), upon the request of the permittee, an interested party or for good cause, the Department may make certain minor modifications to a permit without issuing a tentative approval, providing public notice thereof or holding

a public hearing thereon.

- (d) Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, the permittee shall promptly submit such facts or information.

5. Signatory Requirements

- (a) All completed registration statements submitted by the permittee shall be signed as specified at N.J.A.C. 7:26-2.4(e)1.
- (b) All engineering designs and reports, the environmental and health impact statement, other information requested as "Addendums" by the Department pursuant to N.J.A.C. 7:26-2.4(f) and (g)4 and documents required to be submitted pursuant to N.J.A.C. 7:26-2.9 and 2.10, submitted on behalf of the permittee, shall be signed by a person described in N.J.A.C. 7:26-2.4(e)1 or by a duly authorized representative of that person, as specified at N.J.A.C. 7:26-2.4(e)2.
- (c) Any person signing a registration statement, engineering design or report, environmental and health impact statement or addendum mentioned in N.J.A.C. 7:26-2.4(e)1 or (e)2, submitted on behalf of the permittee, shall make the certification specified at N.J.A.C. 7:26-2.4(e)3.

6. Transfers

- (a) Pursuant to N.J.A.C. 7:26-2.8(l), the permittee shall not transfer ownership of the permit without receiving prior written approval of the Department, in accordance with N.J.A.C. 7:26-2.7(e).
- (b) Pursuant to N.J.A.C. 7:26-2.7(e)1, a written request for permission to allow any transfer of ownership or operational control of the facility must be received by the Department at least 180 days in advance of the proposed transfer. The request for approval shall include the following:
  - (1) A registration statement, completed by the prospective new permittee on forms provided by the Department;
  - (2) A disclosure statement as required by N.J.A.C. 7:26-16.4 completed by the proposed transferee;
  - (3) A written agreement between the permittee and the proposed new permittee containing a specific future date for transfer of ownership or operations.
- (c) Pursuant to N.J.A.C. 7:26-2.7(e)2, a new owner or operator may commence operations at the facility only after the existing permit has been revoked and a permit is issued pursuant to N.J.A.C. 7:26-2.4.



- (d) Pursuant to N.J.A.C. 7:26-2.7(e)3, the permittee of record remains liable for ensuring compliance with all conditions of the permit unless and until the existing permit is revoked and a new permit is issued in the name of the new owner or operator.
- (e) Pursuant to N.J.A.C. 7:26-2.7(e)4, compliance with the transfer requirements set forth in that subsection shall not relieve the permittee from the separate responsibility of providing notice of such transfer pursuant to the requirements of any other statutory or regulatory provision.

7. Registration Statement

- (a) Pursuant to N.J.A.C. 7:26-2.8(b), prior to May 1 of each calendar year the permittee shall submit to the Department a statement updating the information contained in the permittee's initial registration statement. This update shall be on forms furnished by the Department. In no case shall submission of an updated statement alter conditions of this permit.
- (b) Pursuant to N.J.A.C. 7:26-2.8(c), the permittee shall notify the Department in writing within 30 days of any change in the information set forth in the permittee's current registration statement.
- (c) Pursuant to N.J.A.C. 7:26-2.8(d), failure of the permittee to submit an updated registration statement and to submit all applicable fees, required by N.J.A.C. 7:26-4, on or before July 1 of each calendar year shall be sufficient cause for the Department to revoke this permit or take such other enforcement action as is appropriate.

8. Operating Record and Reporting Requirements

- (a) The permittee shall maintain a daily record of wastes received. The record shall include the information specified at N.J.A.C. 7:26-2.13(a).
- (b) The daily record shall be maintained, shall be kept, and shall be available for inspection in accordance with N.J.A.C. 7:26-2.13(b).
- (c) The permittee shall submit monthly summaries of wastes received to the Division of Solid and Hazardous Waste, Bureau of Recycling and Planning and the Solid Waste Coordinator for the Union County District, on forms provided by the Department (or duplication of same), no later than 20 days after the last day of each month. The monthly summaries shall include the information specified at N.J.A.C. 7:26-2.13(e).
- (d) Pursuant to N.J.A.C. 7:26-6.4, upon request by the Department, the permittee shall submit, in such form as the Department may deem appropriate, information concerning the sources of wastes received and the transportation or disposal patterns associated with such wastes.

9. Conformance to the District Solid Waste Management Plan

Pursuant to N.J.A.C. 7:26-6.12(b), the permittee shall operate the facility in compliance with

any applicable district solid waste management plan(s) as well as any amendments to and/or approved administrative actions concerning such plan(s). Should the permittee fail to comply with any applicable district solid waste management plan(s) as well as any amendment to or approved administrative actions concerning such plan(s), the permittee shall be deemed in violation of N.J.S.A. 13:1E-1 *et seq.* and N.J.A.C. 7:26-1 *et seq.* and shall be subject to applicable penalties provided thereunder, and any other applicable laws or regulations.

10. Compliance with Other State Regulations and Statutes

Pursuant to N.J.A.C. 7:26-2.8(h), the issuance of this permit shall not exempt the permittee from obtaining all other permits or approvals required by law or regulations.

End of Section I

## Section II - General Operating Requirements

### 1. General Operating Requirements for Solid Waste Facilities Disposing of On-site Generated Waste

Pursuant to N.J.A.C. 7:26-2.11, the facility must be operated in compliance with the following general operating requirements:

- (a) Within each 24-hour period the operator shall clean each area where waste has been deposited or stored, except for those storage areas that are designed for multiple day storage.
- (b) No waste shall be stored overnight at the facility without effective treatment to prevent odors associated with putrefaction.
- (c) Facility property surrounding the actual disposal area shall be maintained free of litter, debris, and accumulations of unprocessed waste, process residues and effluents. Methods of effectively controlling wind-blown papers and other lightweight materials such as fencing shall be implemented at the facility.
- (d) Methods of effectively controlling dust shall be implemented at the facility in order to prevent offsite migration.
- (e) The operation of the facility shall not result in the emission of air contaminants in violation of N.J.A.C. 7:27-5.2(a).
- (f) The operator shall maintain all facility systems and related appurtenances in a manner that facilitates proper operation and minimizes system downtime. When requested, the operator of the facility shall furnish proof that provisions have been made for the repair and replacement of equipment which becomes inoperative.
- (g) An adequate water supply and adequate fire-fighting equipment shall be maintained at the facility or be readily available to extinguish any and all types of fires. Fire-fighting procedures as delineated in the approved O and M manual, including the telephone numbers of local fire, police, ambulance and hospital facilities, shall be posted in and around the facility at all times.
- (h) The operator shall effectively control insects, other arthropods and rodents at the facility by means of a program in compliance with the requirements of the New Jersey Pesticide Control Code, N.J.A.C. 7:30, and implemented by an applicator of pesticides, certified in accordance with the New Jersey Pesticide Control Code, N.J.A.C. 7:30.
- (i) The operator shall at all times comply with the conditions of this permit, as well as all other permits or certificates required and issued by the Department or any other governmental agency. The operator shall not receive, store, handle, process or dispose of waste types not specifically identified in Section III of this permit or

other permit or certificate issued by the Department.

- (j) Departmental inspectors shall have the right to enter and inspect any building or other portion of the facility, at any time. This right to inspect includes, but is not limited to:
  - (1) Sampling any materials on site;
  - (2) Photographing any portion of the facility;
  - (3) Investigating an actual or suspected source of pollution of the environment;
  - (4) Ascertaining compliance or non-compliance with any statutes, rules, or regulations of the Department, including conditions of the SWF permit or other permit or certificate issued by the Department; or
  - (5) Reviewing and copying all applicable records, which shall be furnished upon request and made available at all reasonable times for inspection.
- (k) The quantity of waste received by the facility operator shall not exceed the system's designed handling, storage, processing or disposal capacity as identified in Section III of this permit or other permit certificate. The designed processing and disposal capacity approved within this permit, or any other permit certificate or approval conditions shall be inclusive of all solid waste received at the facility as well as all source separated recyclables received.
- (l) The facility shall be operated in a manner that employs the use of the equipment and those techniques for the receipt, storage, handling, processing or disposal of incoming waste and process residues that are specifically authorized by this permit.
- (m) The approved final O and M manual shall be maintained at the facility. A written description of any proposed changes to the approved, final O and M manual shall be submitted to the Department for review. These proposed changes shall not be implemented at the facility until the Department approves the changes.

2. General Operating Requirements for Small-scale Thermal Destruction Facilities

Pursuant to N.J.A.C. 7:26-2B.8, the facility must be operated in compliance with the following general operating requirements:

- (a) The owner or operator shall conduct inspections as indicated in the approved final O and M manual in order to identify and remedy any problems.
- (b) The owner and/or operator shall record the results of the inspections in a log book or by means of an electronic storage system approved by the Department which shall be accessible at the facility at all times for inspection by the Department. These records shall include the date and time of the inspection, the name of the inspector, a notation of observations and recommendations and the date and nature of any repairs or other remedial actions taken.
- (c) The owner or operator shall implement a program that effectively prevents the acceptance of unauthorized waste types. This program shall be incorporated into the approved final O and M manual.
- (d) Should situations arise where the facility experiences equipment or system malfunction to the extent that the waste received cannot be handled or processed in the normal manner, as specified in this permit, then the operator shall notify the Department of the existence of such a situation and the circumstances contributing to the situation within the working day of its occurrence. The operator shall immediately pursue corrective measures. The continued receipt of wastes at the facility shall be limited to that quantity and type that can be handled, stored and processed in conformance with the facility's remaining approved operational capacity.
- (e) Arrangements for facility generated waste disposal shall be established and maintained throughout the life of the facility. These waste disposal arrangements shall be in conformance with the Solid Waste Management Plan of the District in which the facility is located and with the rules of the Department.
- (f) Unprocessed incoming waste, facility process waste residues and effluents, and recovered materials shall be stored in bunkers, pits, bins, or similar containment vessels and shall be kept at all times at levels that prevent spillage or overflow.
- (g) Samples and measurements taken for the purpose of monitoring facility process and treatment operations shall be representative of the process or operation and shall be performed in accordance with the conditions of this permit, as well as the requirements of other regulatory agencies where applicable. Monitoring shall be conducted through the use of continuous monitoring instrumentation, where feasible.
- (h) Prior to disposal, the owner and/or operator shall perform a waste determination on all residual ash, in accordance with N.J.A.C. 7:26G-6. Such determination shall be based on analyses of representative composite samples collected in the

manner specified in Section III of this permit. At a minimum the sampling shall include analyses for toxicity characteristics and total TCDDs (all tetrachlorodibenzo-p-dioxins), and shall be performed at the frequency specified in Section III of this permit.

- (i) The Department may alter the list of ash test parameters, the methods of sample collection, the analytical procedures employed and the frequency of sampling and analysis, as it deems is necessary. The permittee may request the Department to reduce the number of ash test parameters specified within Section III of this permit by applying qualitative knowledge of incoming waste streams. If the owner and/or operator demonstrates through testing that the concentration of any given parameter is consistently below method detection levels as determined using the Toxicity Characteristic Leaching Procedure (TCLP), as defined in USEPA's Test Methods for Evaluating Solid Waste-Physical/Chemical Methods SW-846 (SW-846), or the concentration of any given parameter as determined using a total metals analysis, as defined in SW-846, is consistently below 20 times the regulatory threshold levels of the TCLP, the permittee may request the Department to eliminate those parameters from subsequent analysis.
- (j) The analyses required by (h) and (i) above shall be performed in accordance with procedures outlined in the most recent edition of "Test Methods for Evaluating Solid Waste-Physical/Chemical Methods", U.S.E.P.A. publication SW-846.
- (k) The results of ash analysis, including the statistical evaluation of the analytical data conducted in accordance with SW-846, and related quality assessment and quality control information pertaining to sample collection, handling and laboratory analytical methodology, shall be submitted to the Department for evaluation. The owner and/or operator shall dispose of the onsite generated residual ash at a facility authorized and permitted to receive the waste type I.D. number assigned to the residual ash by the Department in accordance with its classification.
- (l) The operator shall retain original records of all waste analyses and operations monitoring reports at the facility for a period of three years from the date of measurement.
- (m) Records of operations monitoring and waste analyses required above shall include:
  - (1) The date, time and place of sampling, measurement or analysis;
  - (2) Chain of custody for all samples collected;
  - (3) The name of the individual who performed the sampling, measurement or analysis;
  - (4) The sampling and analytical methods including the minimum detection levels for the analytical procedure utilized;

- (5) The results of such sampling, measurement or analyses; and
  - (6) The signature and certification of the report by an appropriate authorized agent for the facility.
- (n) The owner and/or operator shall act to prevent accidental or unintentional entry and minimize the possibility for unauthorized entry into the facility. The facility shall have a 24-hour surveillance system which continuously monitors and controls entry to the facility or an artificial or natural barrier which completely surrounds the facility. In addition, the facility shall have a means to control entry at all times through the gates or other entrances to the facility.
- (o) The owner and/or operator shall comply with the following requirements pertaining to facility staffing:
  - (1) Facilities shall maintain sufficient personnel during each scheduled shift to assure the proper and orderly operation of all system components, along with the ability to handle all routine facility maintenance requirements. Such personnel shall have sufficient educational background, employment experience and/or training to enable them to perform their duties in such a manner as to ensure the facility's compliance with the requirements of the Solid Waste Management Act at N.J.S.A. 13:1E, N.J.A.C. 7:26-1 *et seq.*, and the conditions of this permit;
  - (2) Each shift shall have a designated shift supervisor authorized by the owner or operator to direct and implement all operational decisions during that shift; and
  - (3) A facility utilizing a boiler to generate steam, power or heat shall employ individuals licensed in accordance with the Rules and Regulations of the New Jersey Department of Labor, "Boilers, Pressure Vessels and Refrigeration", N.J.A.C. 12:90.
- (p) The owner and/or operator shall comply with the following requirements pertaining to facility personnel training:
  - (1) All personnel who are directly involved in facility waste management activities or who operate, service, or monitor any facility equipment, machinery or systems shall successfully complete an initial program of classroom instruction and on-the-job training that includes instruction in the operation and maintenance of the equipment, machinery and systems which they must operate, service or monitor in the course of their daily job duties, and which teaches them to perform their duties in a manner that ensures the facility's compliance with the requirements of the Solid Waste Management Act at N.J.S.A. 13:1E, N.J.A.C. 7:26-1 *et seq.* and the conditions of this permit;
  - (2) The training program shall be directed by a person thoroughly familiar with the technology being utilized at the facility and the conditions of the

- facility's permits;
  - (3) The training program shall ensure that facility personnel are able to effectively respond to any equipment malfunction or emergency situation that may arise. The training program shall provide instruction in the use of personal safety equipment, procedures for inspecting and repairing facility equipment, the use of communications or alarm systems, the procedures to be followed in response to fires, explosions or other emergencies, and the procedures to be followed during planned or unplanned shutdown of operations;
  - (4) Employees hired shall not work in unsupervised positions until they have completed the training program required herein;
  - (5) Facility personnel shall take part in a planned annual review of the initial training program; and
  - (6) Training records that document the type and amount of training received by current facility personnel shall be kept until closure of the facility. Training records on former employees shall be kept for at least one year from the date the employee last worked at the facility.
- (q) The following actions shall be implemented in the case of an emergency:
- (1) The plant operator or emergency coordinator shall immediately identify the character, exact source, amount and extent of any discharged materials and notify appropriate State or local agencies with designated response roles if their help is needed;
  - (2) Concurrently, the plant operator or emergency coordinator shall assess possible hazards to public health or the environment that may result from the discharge, fire or explosion. This assessment shall consider both direct and indirect effects;
  - (3) If the plant operator or emergency coordinator determines that the facility has had an uncontrolled discharge, a discharge above standard levels permitted by the Department, or a fire or explosion, he or she shall:
    - (i) Immediately notify appropriate local authorities if an assessment indicates that evacuation of local areas may be advisable;
    - (ii) Immediately notify the Department at 1-877-WARNDEP; and
    - (iii) When notifying the Department, report the type of substance and the estimated quantity discharged, if known, the location of the discharge, the action the person reporting the discharge is currently taking or proposing to take in order to mitigate the discharge and any other information concerning the incident which the Department may request at the time of notification.
  - (4) The plant operator shall take all reasonable measures to ensure that fires,



explosions and discharges do not recur or spread to other areas of the facility. These measures shall include, where applicable, the cessation of process operations and the collection and containment of released waste;

- (5) Immediately after an emergency, the plant operator or emergency coordinator shall provide for treating, storing or disposing of waste contaminated soil or water or any other material contaminated as a result of the discharge, fire or explosion;
- (6) The plant operator or emergency coordinator shall insure that no waste is processed until cleanup procedures are completed and all emergency equipment listed in the contingency plan is again fit for its intended use;
- (7) The plant operator or emergency coordinator shall notify the Department and appropriate local authorities when operations in the affected areas of the facility have returned to normal; and
- (8) Within 15 days after the incident, the plant operator or emergency coordinator shall submit a written report on the incident to the Department. The report shall include, but not be limited to:
  - (i) The name, address and telephone number of the facility;
  - (ii) The date, time and description of the incident;
  - (iii) The extent of injuries, if applicable, with names and responsibilities indicated;
  - (iv) An assessment of actual damage to the environment, if applicable;
  - (v) An assessment of the scope and magnitude of the incident;
  - (vi) A description of the immediate actions that have been initiated to clean up the affected area and prevent a recurrence of a similar incident; and
  - (vii) An implementation schedule for undertaking measures to effect cleanup and avoid recurrence of the incident, if applicable.

3. General Operating Requirements for Regulated Medical Waste Destination Facilities

- (a) Pursuant to N.J.A.C. 7:26-3A.1(c), the permittee shall comply with N.J.A.C. 7:26-3A.1 *et seq.*
- (b) Pursuant to N.J.A.C. 7:26-3A.4(a), the length of time that the permittee shall keep records required under N.J.A.C. 7:26-3A is automatically extended in the case where EPA, the Department or another State agency initiates an enforcement action, for which those records are relevant, until the conclusion of the enforcement action.
- (c) Pursuant to N.J.A.C. 7:26-3A.4(b), all records, reports, logs and tracking forms required to be made and/or kept in accordance with N.J.A.C. 7:26-3A, shall be made available for inspection by the Department.
- (d) Pursuant to N.J.A.C. 7:26-3A.9, the supervisory personnel of the small scale thermal destruction facility that is the subject of this permit shall attend education and training sessions provided by the Department, and shall also be required to disseminate the information obtained at the sessions to all employees.
- (e) Storage of regulated medical waste shall be in conformance with N.J.A.C. 7:26-3A.12.
- (f) Pursuant to N.J.A.C. 7:26-3A.16(a) the permittee shall determine if waste is a regulated medical waste.
- (g) The permittee shall comply with the record keeping requirements at N.J.A.C. 7:26-3A.25.
- (h) The permittee shall comply with the reporting requirements at N.J.A.C. 7:26-3A.26.

End of Section II

### Section III - Specific Conditions Applicable to the Facility

#### 1. Permitted Waste Types

The permittee is authorized to accept the following waste types and the following regulated medical waste classes originating from the Merck & Co., Inc. "Rahway Campus":

<u>ID</u>	<u>Description</u>
27	Dry Industrial Waste
72	Bulk Liquid and Semiliquids
Regulated Medical Waste	Classes 1, 2, 3, 4, 5, 6, and 7 that include liquids and semi-liquids used in research and development activities conducted at the Rahway Campus that have been in contact with Regulated Medical Waste materials. Incineration of Regulated Medical Waste that is also low-level radioactive waste-containing byproduct material shall be conducted in accordance with the permittee's U.S. Nuclear Regulatory Commission (NRC) License No. 29-00117-06, 10CFR Part 20 and 40 CFR Part 61, Subpart I, as applicable.

The permittee is not authorized to accept any other type or description of solid waste as defined at N.J.A.C. 7:26-2.13(g) and (h), regulated medical waste as defined at N.J.A.C. 7:26-3A.6(a), or hazardous waste as defined at N.J.A.C. 7:26G-1 *et seq.* Recyclable materials designated in the Union County District Recycling Plan shall not be accepted for disposal at this facility. The permittee shall implement and maintain a program to detect and remove designated recyclable materials from the solid waste stream accepted at this facility. The regulated medical waste stream accepted at this facility is exempt from this requirement.

#### 2. Approved Designs, Plans and Reports

- (a) The permittee shall operate the facility, and construct or install associated appurtenances thereto, in accordance with the provisions of N.J.A.C. 7:26-1 *et seq.*, the conditions of this permit, and the following permit application documents and operations and maintenance manual documents which are incorporated herein by reference:

- (1) Merck & Co., Inc., "Solid Waste Facility Permit Application for the Merck Medical Waste Incinerator", prepared by ENSR Consulting and Engineering, dated June 1991, signed and sealed by Charles Pfrommer, Jr., N.J.P.E. License Number GE 25692, on June 6, 1991 and submitted via a cover letter dated June 20, 1991; in addition the following drawings which are included in the application document for information purposes:

- Zoning Map - City of Rahway, last revised July 8, 1985, prepared by

Robert E. Rosa Associates.

- Zoning Map - City of Linden, last revised May 25, 1989, prepared by John A. Ziemian, City Engineer.
  - Tax Map - City of Linden, dated March, 1973.
  - Map of Property - City of Rahway and City of Linden, Merck & Co., Inc., Drawing No. X-R-825-12, last revised May 9, 1979.
  - Existing Underground Chem/Sanitary Sewer, prepared by Merck & Co., Inc., Drawing No. E-911341RC, dated April 12, 1991.
  - Existing Underground City Water Lines, prepared by Merck & Co., Inc., Drawing No. E-911338RC, dated April 12, 1991.
  - Existing High & Low Pressure Steam Lines, prepared by Merck & Co., Inc., Drawing No. E-911340RC, dated April 15, 1991.
- (2) The following drawing prepared by Badger Industrial Facilities Group:
- E-1351-C00, Issue 0, "Key Plan", dated January 14, 1993.
- (3) The following drawing prepared by Badger Industrial Facilities Group, sealed and signed by Wayne Everitt Shaw, N.J.P.E. License Number GE 32637:
- E-1351-C02, Issue 1, "Site Layout Plan", dated April 9, 1993.
- (4) The following drawing prepared by Badger Industrial Facilities Group, sealed and signed by Michael D. Marion, N.J.P.E. License Number 36963 on April 25, 1994:
- E-1351-A06, Issue I, "Exterior Elevations", dated April 9, 1993.
- (5) The following drawings prepared by Badger Industrial Facilities Group, sealed and signed by Michael D. Marion, N.J.P.E. License Number 36963 on April 5, 1994:
- E-1351-A01, Issue 2, "Main Floor Plan", dated June 10, 1993.
  - E-1351-A02, Issue 3, "Mezzanine Plan", dated June 10, 1993.
  - E-1351-A05, Issue 2, "Exterior Elevations", dated June 10, 1993.
  - E-1351-C03, Issue 2, "Site Utility Plan", dated April 20, 1993.
- (6) The following drawing prepared by Allis Mineral Systems - Kennedy Van

Saun, sealed and signed by Donald L. Fisher, N.J.P.E. License Number 37771, on April 6, 1994:

- D-3285, Issue B, "Process Flow Diagram Air Quality Control System", dated April 5, 1994.

(7) The following drawings, prepared by Allis Mineral Systems - Pyro Systems Division, sealed and signed by Donald L. Fisher, N.J.P.E. License Number 37771, on May 4, 1994:

- 920749, Revision L, "P & I Flow Diagram Legend Sheet", dated April 27, 1994.
- 920750, Revision L, "P & I Flow Diagram Master P & I", dated April 27, 1994.
- 920751, Revision L, "P & I Flow Diagram Conveyor System", dated April 27, 1994.
- 920752, Revision L, "P & I Flow Diagram Hydraulic Pump System", dated April 27, 1994.
- 920753, Revision L, "P & I Flow Diagram Ram Loader Assembly", dated April 27, 1994.
- 920754, Revision L, "P & I Diagram Rotary Kiln", dated April 27, 1994.
- 920755, Revision L, "P & I Flow Diagram Aqueous Waste System", dated April 27, 1994.
- 920756, Revision L, "P & I Flow Diagram Kiln Burner System", dated April 27, 1994.
- 920757, Revision L, "P & I Flow Diagram Secondary Chamber Burner System", dated April 27, 1994.
- 920758, Revision L, "P & I Flow Diagram Ash Plow Assembly", dated April 27, 1994.
- 920759, Revision L, "P & I Flow Diagram Heat Exchanger", dated April 27, 1994.
- 920760, Revision L, "P & I Flow Diagram Quench Chamber", dated April 27, 1994.
- 920761, Revision L, "P & I Flow Diagram Lime Transport System", dated April 27, 1994.

- 920762, Revision L, "P & I Flow Diagram Baghouse Assembly", dated April 27, 1994.
  - 920763, Revision L, "P & I Flow Diagram Interlock List", dated April 27, 1994.
- (8) Environmental Health and Impact Statement, submitted by ENSR Consulting and Engineering on June 20, 1991 as part of the referenced permit application - Chapter 7.
- (9) Application for Permit to Construct, Install or Alter Control Apparatus or Equipment and Certificate to Operate Control Apparatus or Equipment dated 6/19/91 (forms VEM 003, VEM 004 & supplement, DEQ-069D, DEQ-069M, & DEQ-069F).
- (10) Addendum to the Air and Solid Waste Permit - Applications for the Merck Medical Waste Incinerator, Document Number 4589-002-300a, dated Sept. 20, 1991.
- (11) Letter of September 15, 1993 from William P. Hamilton, Merck & Co., Inc., to Sukhdev Bhalla, Division of Solid Waste Management, transmitting revisions to pages for Chapter 7, Section 2.0 of the application for the Merck Rahway facility.
- (12) Letter of October 13, 1993 from Arlene R. Borowsky, ENSR Consulting and Engineering, to Sukhdev Bhalla, Division of Solid Waste Management, transmitting a summary table of engineering design revisions for the Merck Rahway facility.
- (13) Letter of December 2, 1993 from Arlene R. Borowsky, ENSR Consulting and Engineering, to Sukhdev Bhalla, Division of Solid Waste Management, transmitting revised engineering drawings for the Merck Rahway facility.
- (14) Letter dated February 17, 1994 from Arlene R. Borowsky, ENSR Consulting and Engineering, to Sukhdev Bhalla, Division of Solid Waste Management, transmitting a revised summary table of engineering design revisions for the Merck Rahway facility.
- (15) Letter dated April 7, 1994 from William P. Hamilton, Merck & Co., Inc., to Mr. Robert Ciolek, Division of Solid Waste Management, transmitting details of design modification for the Merck Rahway facility, including Attachments I through VI.
- (16) Letter dated April 27, 1994 from Anthony J. Opiatowski, Merck & Co., Inc., to Mr. Herbert Gross, Division of Solid Waste Management, transmitting a revised engineering drawing for the Merck Rahway facility.

- (17) Letter dated May 4, 1994 from William P. Hamilton, Merck & Co., Inc., to Mr. Herbert Gross, Division of Solid Waste Management, transmitting updated design drawings for the Merck Rahway facility.
- (18) "Solid Waste Facility Permit Renewal Application" (revised), dated April 16, 1999, including Attachments I - XVII.
- (19) "Solid Waste Facility Permit Renewal Application Addendum", dated October 29, 1999.
- (20) "Solid Waste Facility Permit Renewal Application Addendum", dated May 17, 2000.
- (21) "Solid Waste Facility Permit Renewal Application: Recission of October 29, 1999 Addendum", dated June 6, 2000.
- (22) "Solid Waste Facility Permit Renewal Application Addendum", dated August 8, 2000. This Addendum includes the following drawing:
  - Drawing Number E-1351-C02, Issue 3, "Site Layout Plan", signed and sealed by Jeremiah J. Laurizio, N.J.P.E. License Number 34533, on 8/8/2000.
- (23) Final Operations and Maintenance Manual titled "Merck & Co., Inc., Rahway, New Jersey Pathological/Medical Waste Incineration Operating & Maintenance Manual", initially approved by the Department on June 20, 1994, and also including all subsequent approved revisions of the Manual.

In case of conflict, the provisions of N.J.A.C. 7:26-1 *et seq.* shall have precedence over the conditions of this permit, the conditions of this permit shall have precedence over the SWF permit application documents and operations and maintenance manual documents listed above, and the most recent revisions and supplemental information approved by the Department shall prevail over prior submittals and designs.

- (b) One complete set of the documents listed in Condition 2.(a) above, this Solid Waste Facility Permit, and all records, reports and plans as may be required pursuant to this permit shall be kept on site and shall be available for inspection by authorized representatives of the Department upon presentation of credentials.

### 3. Approved Operations

#### (a) Waste Processing Rates

The facility shall process solid waste or liquid waste (fed to the unit in individual containers not to exceed two gallons in size) at a rate that does not exceed 799 pounds per hour. The processing of liquid wastes injected into the unit by means of spray nozzle, shall not exceed a rate of 751 pounds per hour.

(b) Hours of Operation

The delivery and/or processing of waste at the facility shall be limited to the following schedule:

Monday through Sunday, 24-Hours Daily

(c) Housekeeping

Routine housekeeping and maintenance procedures shall be implemented within the facility interior to prevent the excess accumulation of dust and debris, and to maintain general cleanliness in the working environment. Unprocessed waste feedstock and facility process waste residues shall be stored in containers as specified in the referenced engineering plans listed at Condition 2 of this section. All facility floor drains, traps, sumps or similar catchment basins shall be maintained free of obstructions to facilitate effluent drainage.

4. Security

In addition to the requirements of Condition number 2.(n) of Section II of this permit, the permittee shall maintain security procedures in accordance with the "Facility Security Plan" as detailed in the Merck & Co., Inc. Rahway Facility RCRA Part B Permit.

5. Residue Management

(a) Process Residue Handling and Storage

Fly ash and bottom ash residues generated by facility operations shall be separately collected and containerized, prior to transport to the container utilized for exterior storage of the combined residues. The container initially used to collect bottom ash shall be watertight. The collection of fly ash from the baghouse shall be conducted utilizing a plastic sleeve to minimize dusting. The process of transferring the separately collected fly ash and bottom ash to the container used to store the combined residues awaiting disposal, shall be controlled in such a manner as to prevent fugitive dust and spillage. All containers used to store the combined residues on the exterior of the facility shall be fully enclosed and watertight. Exterior container storage of ash residue shall be conducted within the area of the Merck & Co., Inc. Rahway Campus designated for this purpose. The ash residue in storage shall be secured to prevent unauthorized access.

Ash residues shall be thoroughly extinguished to eliminate any fire hazard, and shall be handled in such a manner as to prevent fugitive dust and spillage. Ash residue containers shall not be filled to levels that permit overflow or spillage during handling, while in storage, or during transport for disposal. Ash residue containers shall be covered during transport to prevent spillage or scattering by wind.



(b) Residual Ash Monitoring Program

A residual ash monitoring program shall be maintained by the permittee for the purpose of assessing the chemical characteristics of the combined bottom ash residue and fly ash residue generated by facility operations. Material sampling methods, sample preservation requirements, sample handling times and decontamination procedures for field equipment shall conform to applicable industry methods as specified in the NJDEP "Field Sampling Procedures Manual." Other methods may be used on written approval from the Division of Solid and Hazardous Waste. As a minimum, this monitoring program shall consist of the following:

- (1) Analyses shall be conducted in accordance with the following schedule:

<u>TIME PERIOD</u>	<u>ANALYSIS:</u>	
	<u>Toxicity Characteristic Leaching Procedure</u>	<u>Total TCDDs</u> (17 2,3,7,8-substituted PCDD and PCDF Congeners)
Confirmatory	Separate sampling of bottom ash and fly ash at intervals during the quarter, with analysis of a minimum of four combined samples, as described below	Separate sampling of fly ash and bottom ash residue during any stack-testing event conducted for dioxins, with analysis of a single combined sample, as described below
Re-Characterization	As Required / Parameter Specific	N/A

- (2) For purpose of analysis, the residual ash generated by the facility shall be sampled in accordance with the following procedures:

(i) **TOXICITY CHARACTERISTIC LEACHING PROCEDURE SAMPLING:**

During each three month period (quarter) of facility operation, the bottom ash and fly ash generated by the facility shall be sampled in accordance with the following protocol. As a minimum, four (4) proportionally mixed (by weight) samples of combined bottom ash residue and fly ash residue shall be prepared and analyzed each quarter. Based on the projected operating days for the quarterly sampling period, four shifts spaced at reasonable intervals during the quarter shall be designated for the collection of samples. During each of the four (4) designated shifts, representative samples of combined bottom

ash and fly ash residue shall be prepared by sampling the separate containers used to collect the fly ash and bottom ash residue. At least four random samples shall be taken from each container. The samples shall be taken using a scoop device. The discrete bottom ash samples shall be thoroughly mixed and the discrete fly ash samples shall be thoroughly mixed. The fly ash and bottom ash shall then be combined and thoroughly mixed, as a preparatory step to analysis. The ratio used to combine the discrete fly ash and bottom ash samples shall be based on the generation rate of the two residue streams, on a weight basis. Reevaluation of the bottom ash and fly ash mix ratio based on facility ash production records, shall be performed on a quarterly basis. The adjusted production ratio shall be employed in preparing the combined ash samples that will be subject to analysis. The following analysis shall be performed on each of the four (4) proportionally mixed combined ash samples: Toxicity Characteristic Leaching Procedure (TCLP) for the eight (8) heavy metals: As, Ba, Cd, Cr, Pb, Hg, Se, and Ag.

(ii) **STACK-TESTING EVENT – DIOXIN ANALYSIS SAMPLING:**

During any stack-testing event measuring dioxin emissions to the atmosphere, each separate container of fly ash and bottom ash collected during the term of the stack-testing event shall be sampled using a scoop device as specified in (2) (i) immediately above. The discrete bottom ash and fly ash samples recovered from the container(s) produced during the course of the stack-testing event shall be thoroughly mixed and combined, as specified in (2) (i) immediately above. The ratio used to combine the discrete fly ash and bottom ash samples shall be based on the generation rate of the two residue streams, on a weight basis. This combined sample shall be analyzed for total TCDDs (17 2,3,7,8-substituted PCDD and PCDF Congeners), using USEPA Test Method 1613B.

- (3) A new combined bottom ash residue and fly ash residue characterization program shall be initiated if:
- (i) there is a significant change in facility processes and/or operations;
  - (ii) there is a significant change in the type of waste(s) received for disposal at the facility; or
  - (iii) the results of the confirmatory analyses demonstrate that one or more of the parameters exceed the Toxicity Characteristic Leaching Procedure regulatory limits.
- (4) Combined ash re-characterization analysis will be parameter-specific in the instance where the analysis indicates that concentrations in the sample extract are above the defined regulatory threshold for that parameter, resulting in the waste residue requiring reclassification as a hazardous waste. Otherwise, analysis will include the full spectrum of listed TCLP

parameters. The combined ash re-characterization period shall consist of a minimum period of four (4) weeks. Ash residue subject to re-characterization shall be sampled using a scoop device as specified in (b) (2) (i) immediately above. On each day of facility operation during the week, at least one random sample shall be taken from the separate containers used to collect the bottom ash and fly ash. The daily samples collected shall be mixed and combined as specified in (b) (2) (i) immediately above. The daily combined samples shall be composited into a representative weekly composite combined sample during each of the four (4) weeks. A minimum of four (4) separate samples shall be taken from each weekly composite combined sample, and shall be analyzed for the parameter(s) in question. A revised re-characterization sampling protocol may be set forth by the permittee and can be utilized if approved by the Department. During the combined ash residue re-characterization period, the permittee shall retain an equivalent portion of each composite sample, so that the Department may conduct follow-up analyses when necessary. The samples retained shall be preserved using approved techniques, and stored at the facility for a period of sixty (60) days from the date that the composite sample was transferred to the laboratory for analysis.

- (5) The permittee shall maintain an approved plan for the secured storage of the combined ash residue during a residue re-characterization period. Any ash residue generated during the re-characterization period shall be stored on-site until the analytical results are received, and a determination is rendered on the hazardous or non-hazardous nature of the material. Based on that determination, the ash residue shall then be disposed of at the appropriate disposal facility. At the completion of the re-characterization test period, the confirmatory combined bottom ash residue and fly ash residue sampling and analysis regimen outlined above, shall not be re-instituted without express written approval from the Division of Solid and Hazardous Waste.
- (6) All analyses called for as a condition of this permit shall be performed by a laboratory approved, and/or certified by the Department for those specific analyses. The permittee shall submit each set of analytical results, with the appropriate statistical analysis, to the Division of Solid and Hazardous Waste upon the receipt of said results.

(c) Ash Residue Removal

All truck bodies and/or containers used to remove ash residue shall be sealed to prevent leakage and shall not be filled to levels that permit overflow or spillage during transport. The ash residue removal vehicles (truck bodies and/or containers) shall be covered to prevent spillage or scattering by wind during transport.

6. Operations Records

- (a) In addition to the operating record and reporting requirements of Condition 8 of Section I of this permit and of Condition 3 of Section II of this permit, the permittee shall maintain the following records of facility operations on a daily basis:
  - (1) The quantity (by weight) of waste charged to the incinerator for each hour of operation.
  - (2) The daily total weight of waste and RMW incinerated for each day of facility operation; and
  - (3) The quantity (by weight) of ash residue transported off site for disposal on any given day. Include the date of transport, the name, address and NJDEP registration number of the transporter, and the name and address of the disposal facility that receives the ash.
- (b) The permittee shall submit a report containing the information required by (a) (2) and (3) immediately above, on a semi-annual basis. This report shall be submitted to the Bureau of Resource Recovery and Technical Programs no later than 20 days after the last day of the semi-annual reporting period. All reports shall be signed, certified, and dated by an appropriate authorized agent for the facility.
- (c) Any printed or electronically recorded data generated by the facility's monitoring and control systems shall be maintained at the facility, and shall be available for inspection in accordance with N.J.A.C. 7:26-2.13(b).

End of Section III